

**BLUEBERRY INSECT CONTROL – COMMERCIAL**

<b>Insect</b>	<b>Material and Formulation</b>	<b>Amount to Use Per Acre</b>	<b>Remarks/Precautions</b>	<b>Days to Harvest</b>
<b>BUD SWELL</b>				
Climbing Cutworm	Sevin 80S	1 7/8-2 1/2 lb	During dormant pruning, clip off bagworms on plants and adjacent juniper/cedar trees. Destroy these bags so larvae do not hatch next June and disperse to and defoliate blueberry plants. At bud swell, begin checking plants daily for damaged buds or check after dusk for climbing cutworms feeding on the buds. Spray weekly as long as damage is occurring or climbing cutworms are present.	7
Bagworms	Sevin XLR	1 1/2-2 qt		7

**FRUIT FEEDING INSECT PESTS OF BLUEBERRY ARE RARE IN ARKANSAS.**

<b>PETAL FALL</b>				
Cherry Fruitworm	Asana XL	4.8-9.6 fl oz	Asana repels bees; do not apply within 7 days of pollination.	7
Cranberry Fruitworm	Assail 30SG	4.0-6.9 oz		1
Eastern Tent Caterpillar	Imidan 70W	1 1/3 lb	Apply insecticide against cherry fruitworm at petal fall and 10 days later.	3
	Confirm 2F	16 fl oz	Apply insecticide against cranberry fruitworm 10 days and 20 days after petal fall.	7
	Intrepid	10-16 fl oz		7
	Lannate LV	1 1/2-3 pt	Scout berries for signs of worm feeding before using insecticides.	3
	Malathion 5EC	2 pt	Check labels for application restrictions.	1
	Malathion 8F	1 1/2-2 1/2 pt		1
	Sevin 80S	1 7/8-2 1/2 lb		7
	Sevin XLR	1 1/2-2 qt		7
	SpinTor	4-6 fl oz		3
	Delegate	3-6 oz		3
	Danitol 2.4	13-16 oz		3
	Mustang	4.3 fl oz		1
	Mustang Max	4 fl oz		1
	Avaunt	3.0-5.6 oz		7
	Rimon	20-30 fl oz		8
	Knack	16 fl oz		7
Leafrollers	Javelin WG	0.5-4.0 lb	Javelin and Deliver (both <i>Bt</i> ) and Entrust (spinosad) are approved for organic production to control cherry fruitworm, leafrollers and bagworms. The first or second week of June, check planting for newly hatched bagworms (very localized near bagworm-infested junipers or other trees) and either remove by hand or spray. Leafroller foliar damage is usually not an economic problem.	0
Bagworms	Deliver	0.25-1.5 lb		0
Cherry Fruitworm	Entrust	1.25-2.0 oz		3
Cranberry Fruitworm				

**FIRST AND SECOND COVER**

Plum Curculio		<b>Plum curculio adults and larvae were observed causing damage in fruit for the first time this year (2011).</b>
Fruitworms	<b>SEE PETAL FALL</b>	

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<b>THIRD AND ADDITIONAL COVERS</b>				
Blueberry Maggot			<b>Blueberry maggot larvae and adults have not been observed in Arkansas.</b>	
Japanese Beetle	Actara	4 oz	Mid-June to late July, check for foliar feeding by Japanese beetle and spray weekly as needed.	3
Green June Beetle	Assail 30SC	4.0-6.9 oz	Japanese beetle will feed mostly on leaves and some fruit.	1
Yellow-Necked Caterpillars	Imidan 70W	1 1/3 lb	Scout for green June beetle feeding on fruit during July to early August.	3
Fall Webworms	Sevin XLR	1-2 qt	In July, check twice weekly for groups of yellow-necked caterpillars that can defoliate one or more plants.	7
	Sevin 80S	1 1/2-2 1/2 lb		7
	Provado 1.6	6-8 oz	In July and later August and September, check twice weekly for groups of fall webworms defoliating limbs inside a web. Remove by hand yellow-necked caterpillars and fall webworms from the plant and destroy.	3
	Asana	9.6 fl oz		14
	Mustang	4.3 fl oz		1
	Mustang Max	4 fl oz		1
	Pyganic 1.4	16-64 fl oz	Pyganic is approved for organic production.	3
Japanese Beetle	Admire Pro	7.0-10.5 fl oz	Foliar application against feeding adults or apply in-row surface application or by spray or chemigation at first sighting of adult feeding. Apply 18-inch band on each side of planted row to control first or second instar grubs. Within 24 hours of chemigation or soil band application, 0.5 to 1 inch of water should be applied or received by overhead irrigation or rain. Do not exceed 14 fl oz per acre per season.	7
<b>RED IMPORTED FIRE ANTS</b>				
<b>ALL FIRE ANT BAITS</b> – Apply when ants are active and soil temperature is above 60°F. Do not treat if rain is anticipated within 6 hours.				
	S-Methoprene (Extinguish)	3-5 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate. Broadcast rate. This product is an insect growth regulator (IGR). Apply 3 to 4 weeks prior to harvest date.	
	Pyriproxyfen (Esteem)	2-4 Tbsp/mound 1.5-2.0 lb/acre	Mound-to-mound treatment rate. Broadcast rate.	